21 July 1964 MJM:bb:341 997-112 STATINTL TRIP REPORT To: To Evaluate Microdensitometers STATINTPurpose: STATINTL STATINTL Persons Contacted: STATINTL Other STATINTL STATINTL and I spent the morning of 15 July monitoring the STATINTL series of tests which we developed for testing microdensitometers. The Model 4 instrument being tested was operated by He obtained the edge traces in much the same manner as he had for the paper which That is, the traces were made with a fixed STATINTIME co-authored with "pick up" slit but with various sized il inating apertures. STATINTL STATINTL The ruled silver edge used by the people to obtain the results for their paper was also scanned. It was dermined that the comparison of the Model 4 instrument to a diffraction limited system was performance of the based on the similarity of the ruled silver edge trace to the theoretical edge trace for the system. The differences between the two edge traces were not considered and no attempt was made to derive the system sine way STATINTLs ignificant by response from the experimental edge trace. This will be done at using the computer program developed for the Microcap Project. STATINTL STATINTL Optical Analysis of a Microdensitometer System Presented at Optical Society Meeting April 1964

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The "Class I" instrument was not available for our testing or inspection. It was being fitted with a "center finding" device and will be available for testing in the latter part of August. Detailed literature describing the "Class I" instrument was obtained. This literature will be studied prior to the return vis&Tt&TINTL to test the "Class I" instrument. Questions pertaining to the stated linear measurement precision and accuracy will have to be answered during the next visit since personnel familiar with this aspect of the instruments were not present. The lead screw and guiding way assembly is purchased by the We will ask that either someone at who is familiar with linear measurement precision or that a representative from the ΓINTL be present during our next visit to discuss the quoted accuracy STATINTL STATINTL "Class I" instrument. The "Class III" instrument was also not available for our inspection, STATINTL but it may possibly be available by the end of August. This instrument waTATINTL modular type unit capable of a variety of data processing applications witSTATHATL

what reduced metrological performance. will produce the basic instrument, which will have such features as a 6" x 8" orientation viewing screen and a smaller alignment viewer which can be used while scanning, for approximately Α wide variety of auxilliary equipment will be available at extra cost to provide for optical comrapid processing of large amounts of film. Standard ponents will be used with the instrument as they are with all instruments.

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